

June 3, 2008

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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Mail Stop: Amendment  
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Signature

6/3/2008

Date of Signature

Re: Response to Office Action

Inventors: KASSAB, Ghassan S., et al.

Serial No.: 10/782,149

Filing Date: February 19, 2004

Title: SYSTEM AND METHOD FOR MEASURING CROSS-SECTIONAL AREAS AND PRESSURE GRADIENTS IN LUMINAL ORGANS

Group Art Unit: 3736

Examiner: SZMAL, Brian Scott

Conf. No.: 5030

Our File No.: P01568-US-01 (26259.0010)

**RESPONSE TO OFFICE ACTION**

In response to the final Office Action mailed April 9, 2008 (the "Office Action"), Applicants file the present complete response (the "Response") within two months of the Office Action. The listing of claims starting on page 2 will replace all prior versions and listings of the claims in the above-referenced patent application (the "Application"). The Remarks begin on page 8 of this paper.